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GREEN RIVER ACTION PLAN: YAMPA AND LITTLE SNAKE RIVERS

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	ACTIVITY	WHO	STATUS	FY 04 10/03-9/04	FY 05 10/04-9/05	FY 06 10/05-9/06	FY 07 10/06-9/07	FY 08 10/07-9/08	FY 09 10/08-9/09	OUT- YEARS
I.C.1.	Evaluate importance of Little Snake to endangered fishes and develop management action plan. (Determine if habitat exists to protect under Colorado's instream flow program.)	BR/LFL	Complete	Hawkins et al. 2001; Hawkins and O'Brien 2001.						
I.C.2.	Initially identify year-round flows needed for recovery (needed).									
I.C.2.a.	Develop work plan.	BR/LFL	Complete	Hawkins et al. 2001; Hawkins and O'Brien 2001.						
I.C.2.b.	Identify flows.	FWS-WR		6/04						
I.C.3.	Evaluate need for instream flow water rights.									
I.C.3.a.	Review scientific basis.	CWCB/CDOW	Complete							
I.C.3.b.	Assess legal and physical availability of water.	CWCB	Complete	Colorado completed work on a water availability study in early 1995 & the work was used as the basis of the allocation of compact water between the five subbasins.						
I.C.3.c.	Assess compact considerations.	CWCB	Complete	Colorado completed work on a water availability study in early 1995 & the work was used as the basis of the allocation of compact water between the five subbasins.						
I.C.3.d.	Five-year periodic review of progress under the PBO to determine if instream flow filings are necessary.	CWCB/FWS Wyoming							X	X
I.C.3.d.(1)	If necessary, evaluate how identified flows will be legally protected.	CWCB/ Wyoming							X	X
I.C.4.	Assess Wyoming's current and future water needs.	Wyoming	Complete	Assessment of Wyoming's future water needs is completed (see 2001 RIPRAP assessment)						
I.D.	<u>Yampa River below Little Snake River</u>									
I.D.1.	Initially identify year-round flows needed for recovery.	FWS-FR	Complete	Modde and Smith 1995.						
I.D.1.a.	Modify based on revisions to environmental baseline.	FWS-WR	Complete	Modde and Smith 1995.						
I.D.1.b.	Update flow recommendations to include flows from the Little Snake River.	FWS		9/04						
I.D.2.	Evaluate need for instream flow water rights.									
I.D.2.a.	Review scientific basis.	CWCB/CDOW	Complete							
I.D.2.b.	Assess legal and physical availability of water.	CWCB	Complete	Colorado completed work on a water availability study in early 1995 & the work was used as the basis of the allocation of compact water between the five subbasins.						
I.D.2.c.	Assess compact considerations.	CWCB	Complete	Colorado completed work on a water availability study in early 1995 & the work was used as the basis of the allocation of compact water between the five subbasins.						
I.D.2.d.	Five-year periodic review of progress under the PBO to determine if instream flow filings are necessary.	CWCB/FWS						X	X	X
I.D.2.d.(1)	If necessary, evaluate how identified flows will be legally protected.	CWCB						X	X	X
II.	RESTORE HABITAT (HABITAT DEVELOPMENT AND MAINTENANCE)									
II.A.	<u>Yampa River from Dinosaur National Monument to Craig, Colorado</u>									
II.A.1.	Restore native fish passage at instream barriers and reduce impacts of maintaining diversion structures.									
II.A.1.a.	Inventory potential barriers.	CRWCD	Complete	Hydrosphere 1995.						
II.A.1.b.	Determine threshold (passage) flows between Craig and Dinosaur National Monument (low- flow dependent).	CDOW/FWS	Complete	Modde et al. 1999.						
II.A.1.c.	Develop guidelines to facilitate fish passage at new diversion structures.	PD/FWS-ES	Complete	Roehm 2003.						
II.A.2.	Reduce/eliminate entrainment of Colorado pikeminnow at diversion structures.									
II.A.2.a.	Identify and evaluate existing diversion structures for entrainment of Colorado pikeminnow	PD/FWS-ES	Ongoing	X	X	X	X	X	X	X
>* II.A.2.b.	Develop and implement remedial measures, as necessary, to reduce or eliminate entrainment.	PD/CDOW/ FWS	Ongoing	X	X	X	X	X	X	X
II.A.2.c.	Develop guidelines to reduce or eliminate entrainment at new diversion structures, if necessary.	PD/CDOW/ FWS	Complete	Roehm 2003.						
II.A.3.	Review NPS/USGS report to assess potential for negative impacts of elevated pH to endangered fish.	Program	Complete	PD's office reviewed Chafin 2002 and agreed elevated pH is a sampling artifact.						
II.B.	<u>Green River from Ouray to Jensen, Utah</u> (see Green River Action Plan)									
II.B.1	Acquire interest in high-priority flooded bottomland habitats between Ouray NWR and Jensen to benefit endangered fish (see Green River Action Plan : Mainstem II.A.2.)									
II.B.2.	Implement levee removal strategy at high-priority sites (see Green River Action Plan : Mainstem II.A.3.).									
III.	REDUCE NEGATIVE IMPACTS OF NONNATIVE FISHES AND SPORTFISH MANAGEMENT ACTIVITIES (NONNATIVE AND SPORTFISH MANAGEMENT)									
III.A.	Develop aquatic management plan (Colorado) to reduce nonnative fish impacts while providing sportfishing opportunities (also relates to nonnative fish management/control -- Recovery Element III). CDOW 1998	CDOW	Complete; due for revision	X	X					
>* III.A.1.	Implement Yampa Basin aquatic wildlife management plan to develop nonnative fish control programs in reaches of the Yampa River occupied by the endangered fishes. Each control activity will be evaluated for effectiveness and then continued as needed.	CDOW	Ongoing	X	X	X	X	X	X	X

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	ACTIVITY	WHO	STATUS	FY 04 10/03-9/04	FY 05 10/04-9/05	FY 06 10/05-9/06	FY 07 10/06-9/07	FY 08 10/07-9/08	FY 09 10/08-9/09	OUT- YEARS
III.A.1.a.	Identify potential conflicts between present fisheries management in existing Elkhead Reservoir and endangered fishes and formulate alternative management plan.	CDOW	Complete	CDOW 2003.						
III.A.1.a.(1)	Evaluate nonnative fish escapement and control options at Elkhead Reservoir (during and after Elkhead expansion construction).	FWS-FR/ CDOW		X						
>* III.A.1.a.(2)	Implement control measures as needed to control escapement (during and after Elkhead expansion construction).				X	X	X	X	X	X
III.A.1.b.	Control northern pike									
>* III.A.1.b.(1)	Remove and translocate northern pike from Yampa River.	CDOW/FWS	Ongoing	X	X	X				
III.A.1.b.(2)	Reduce northern pike reproduction in the Yampa River.									
III.A.1.b.(2)(a)	Identify and evaluate natural and artificial spawning/nursery habitats for northern pike in the Yampa River for exclusion devices.	CDOW		X						
>* III.A.1.b.(2)(b)	Implement remedial measures to reduce pike reproduction in Yampa River.	CDOW		X						
III.A.1.b.(2)(c)	Develop guidelines for new structures to minimize creation of habitat suitable for pike spawning/nursery.	CDOW		X						
III.A.1.c.	Control channel catfish									
>* III.A.1.c.(1)	Remove channel catfish in Yampa Canyon.	FWS	Ongoing	X	X	X				
>* III.A.1.c.(2)	Remove and translocate channel catfish above Yampa Canyon.	CDOW	On hold							
>* III.A.1.d.	Remove and translocate smallmouth bass.	CDOW	Ongoing	X	X	X				
III.A.1.e.	Remove bag and possession limits on warmwater nonnative sportfishes within critical habitat in Colorado.	CDOW	Complete	In Colorado fishing regulations.						
IV.	MANAGE GENETIC INTEGRITY AND AUGMENT OR RESTORE POPULATIONS (STOCKING ENDANGERED FISHES)									
IV.A.	<u>Yampa River in Dinosaur National Monument</u>									
IV.A.1.	Augment or restore populations as needed, and as guided by the Genetics Mgmt. Plan.									
IV.A.1.a.	Develop State stocking plan for bonytail in the Yampa River.	CDOW	Complete	Nesler et al. 2003						
> IV.A.1.a.(1)	Implement stocking plan.	FWS/CDOW	Ongoing	X	X	X	X	X	X	X
IV.A.1.b.	Evaluate stocking success as identified in monitoring plan for stocked fish.	LFL/FWS/ States/PD	Ongoing	X	X	X	X	X	X	X
V.	MONITOR POPULATIONS AND HABITAT AND CONDUCT RESEARCH TO SUPPORT RECOVERY ACTIONS (RESEARCH, MONITORING, AND DATA MANAGEMENT)									
V.A.	Conduct population estimate for humpback chub.	FWS		X			X	X	X	X